



HAWAI'I VOLCANOES NATIONAL PARK PROTECTION DIVISION RECORDS FINDING AID 1969-2012 (bulk dates: 1974-2011)

Prepared by

Hawai'i Volcanoes National Park
Archives Staff
9/4/2012



Photograph taken by Emily S. Pronovost.

National Park Service

Catalog Number: HAVO 16085

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HISTORY

Established in 1916 by a congressional act, Hawaii National Park was the 10th National Park in the United States. Originally called Hawaii National Park and composed of the volcanoes Kīlauea and Mauna Loa on Hawai‘i and the volcano Haleakalā on Maui, in 1960, the park split into two parks, Haleakala National Park (HALE) and Hawai‘i Volcanoes National Park (HAVO). In its early years, Hawai‘i Volcanoes National Park was comprised of the volcanoes Kīlauea and Mauna Loa and additional private lands from within and around park boundaries. The park added new lands in subsequent decades and as of 2010, it encompassed 323,431 acres. Hawai‘i Volcanoes National Park (HAVO) harbors distinct plants and animals and has seven diverse ecological zones: seacoast, lowland, mid-elevation woodland, rain forest, upland forest, subalpine, and alpine. Mauna Loa, the earth’s largest volcano at 13,677 feet (4,169 meters), last erupted in 1984. Kīlauea began erupting in 1983 and was still erupting in 2012. The International Biosphere Reserve selected HAVO for these diverse features in 1980 and UNESCO World Heritage Site chose HAVO in 1987. The Protection Division of Hawai‘i Volcanoes National Park is charged with protecting these resources, managing public use, and promoting public safety and visitor enjoyment.

Hawai‘i Volcanoes National Park’s personnel exercised authority and prosecution in the park as early as August 1936. Since that time, visitation and staff increased, creating a need to expand the Protection Division. Volcanic activity created additional duties for the Protection Division and a need to provide further safety measures. This prompted the institution of Incident Command System as a response to the continuing eruption of Kīlauea Volcano in 1989. Incident command system is a hierarchal, systematic approach to managing emergency responses. It starts with the first responder to the incident who controls, instructs, and organizes the incident until it is resolved or a more highly qualified individual assumes control over the incident.

The Protection Division’s primary duty is law enforcement, emergency medical services, firefighting, and search and rescue. They participate in activities such as monitoring illegal hunting and off-roading, traffic policing, and issuing backcountry and hunting permits.

SCOPE AND CONTENT**HAWAII VOLCANOES NATIONAL PARK PROTECTION DIVISION RECORDS
1969-2012 (bulk dates: 1974-2011)**

| | |
|-----------------------------|---|
| <i>CATALOG NUMBER</i> | HAVO 16085 |
| <i>VOLUME</i> | 34,231 EA |
| <i>DESCRIPTION</i> | <p>The Protection Division staff is dedicated primarily to law enforcement, emergency medical services, firefighting and search and rescue. However, volcanic activity creates additional duties creates a need to provide further safety measures. These records contain permanent documentation of these activities and documentation for various plans and procedures for possible and realized incidents occurring in the park. Records include photographs, correspondence, charts, forms, press releases, proposals, inventories, logs, booklets, digital images, and maps. The majority of the records document operations, plans, staffing and signage used during Kīlauea Volcano eruptions. Significant eruptions include the Mother's Day Lava Flow, which resulted in the Kupukupu Fire and the Pānau Iki fire of 2002 to 2003.</p> |
| <i>ORGANIZATION</i> | <p>This collection is organized into the following series: Administration, Airspace Management, Hazard Management, Eruptions, Fire Management, and Permits and Logs.</p> |
| <i>PROVENANCE</i> | <p>Collection was maintained in the Protection Division offices until transferred to the park archives.</p> |
| <i>RESTRICTIONS</i> | NO |
| <i>ASSOCIATED MATERIALS</i> | NO |

HIERARCHY

I. ADMINISTRATION, 1969, 1981-1995

A. REPORTS, PLANS, AND POLICIES, 1969, 1981-1995

II. AIRSPACE MANAGEMENT, 1984-1996

III. HAZARD MANAGEMENT, 1994-1997

IV. ERUPTIONS, 1994-2011

A. GENERAL, 1989-2007

B. PUBLIC INFORMATION, 1990-2002

C. HAWAIIAN VOLCANO OBSERVATORY (HVO), 1996-1999

D. PHOTOGRAPHS AND MAPS, 1997-2002

E. ERUPTION CREW MONTHLY SIGN INVENTORY, 2004-2009

F. ERUPTION DUTY INCIDENT COMMAND UNIT LOG, 1990-2011

G. OPERATIONS LOG, DUTY SCHEDULES, AND ROSTERS, 1992-2010

V. FIRE MANAGEMENT, 1974-1997

A. GENERAL, 1973-1996

B. FIRES RELATED TO VOLCANIC ACTIVITY, 2002-2003

1. PĀNAU IKI FIRE, 2002 December 30-2003 February 28

2. MOTHER'S DAY LAVA FLOW/KUPUKUPU FIRE, 2002-2003

C. WEATHER DATA, 1974-1997

VI. PERMITS AND LOGS

SERIES DESCRIPTIONS

I. ADMINISTRATION, 1969, 1981-1995

This series is organized into one subseries, Reports, Plans, and Policies.

This series contains records of an administrative nature from the Protection Division. The records are from the Chief Ranger or they are records that are general protection plans, policies, and procedures. For information on Protection that is more specific to a particular activity, see the series Airspace Management, Hazard Management, Fire Management, or Eruptions. This series contains reports, plans, policies, and correspondence. Additional records warranting separate series are expected.

A. REPORTS, PLANS, AND POLICIES, 1969, 1981-1995

The subseries is organized alphabetically.

This subseries contains general reports, plans, and policies produced by the Protection Division, such as standard operating procedures and emergency plans. For information on more specific reports, plans, or policies, see the series that relates to the topic under Airspace Management, Hazard Management, Fire Management, or Eruptions.

II. AIRSPACE MANAGEMENT, 1984-1996

This series documents Protection's role in developing plans to address airspace concerns, track airspace use, and determine flying safety risks. The series contains one folder that illustrates the park's relationship with aircraft flying over the park, and includes lists of aircraft companies and illustrations of specific aircraft for identification purposes. A significant volume of records for this series will be accreted at a later date.

III. HAZARD MANAGEMENT, 1994-1997

The subseries is organized alphabetically.

This series documents Protection's role in managing hazardous events in or affecting the park. The series contains records contain data and tracking information for hurricanes in the Pacific and hazardous waste incident procedures.

IV. ERUPTIONS, 1994-2011

This series is organized into the following subseries: General, Public Information, Hawaiian Volcano Observatory (HVO), Photographs and Maps, Eruption Crew Monthly Sign Inventory, Eruption Duty Incident Command Unit Log, and Operations Log, Duty Schedules, and Rosters.

The presence of active volcanoes in Hawai‘i Volcanoes National Park requires a unique set of policies, activities, and procedures. This series documents Protection’s role in these activities through the creation of operating plans and procedures, dissemination of information to the public, and interactions with Hawaiian Volcanoes Observatory. The records include digital images, maps, press releases, plans, policies, and proposals, schedules, and logs.

A. *GENERAL, 1989-2007*

The subseries is arranged in alphabetical order.

This subseries contains general eruption management records, such as correspondence, plans, policies, and proposals, and records that are not directly related to the other six subseries under Eruptions.

B. *PUBLIC INFORMATION, 1990-2002*

This subseries is arranged alphabetically.

This subseries documents the information disseminated to the public regarding eruptions of Kīlauea beginning in 1990. The subseries contains briefing statements, press releases, safety messages, visitor comments, and interpretation displays. For more materials on public information regarding eruptions, see the Interpretation Division records' subseries Newspaper Clippings and Press Releases or Exhibit Planning.

C. *HAWAIIAN VOLCANO OBSERVATORY (HVO), 1996-1999*

Records are arranged chronologically.

This subseries contains notes and reports disseminated to the Protection Division from the Hawaiian Volcano Observatory's weekly, internal meeting where Kīlauea's current eruption is discussed. The notes aid in Protection being up to date on conditions that may impact staff or visitors.

D. *PHOTOGRAPHS AND MAPS, 1997-2002*

This subseries is arranged alphabetically.

This subseries contains photographs of eruptions and maps of lava flows that deal with multiple eruptions. These materials assist in the work of managing eruption sites and visitor access. For information on specific eruption fires, see the Fires Related to Volcanic Activity subseries.

E. *ERUPTION CREW MONTHLY SIGN INVENTORY, 2004-2009*

This subseries is arranged chronologically

This subseries includes monthly inventories conducted by the eruption crew of the signs used at the eruption sites. The subseries contains inventories, images, and compact discs of the sign inventory. For more information regarding signage in Hawai'i Volcanoes National Park, see the Exhibit Planning subseries in the Interpretation Division records.

F. ERUPTION DUTY INCIDENT COMMAND UNIT LOG, 1990-2011

This subseries is arranged in chronological order.

In 1989, the park instituted the Incident Command System as a response to the continuing eruption of Kīlauea Volcano. The unit's personnel include protection as well as interpretation. Units typically log eruption activity and this information is disseminated to the visitor center. The unit also logs vehicles, visitors, and visibility.

G. OPERATIONS LOG, DUTY SCHEDULES, AND ROSTERS, 1992-2010

Folders are arranged in chronological order.

This subseries contains schedules, rosters, notes, and operations logs from the Protection Division.

V. FIRE MANAGEMENT, 1974-1997

This series is organized into three subseries: General, Fires Related to Volcanic Activity, and Weather Data.

Fire Management, a program in the Protection Division, protects the public, communities, and infrastructure; conserves natural and cultural resources; and maintains and restores natural ecosystems and processes. Volcanic activity is a threat to the native environment because fire from volcanic activity and non-native species carried to the islands by humans quickly invade burned areas. These invasive plants can also be very flammable. Protection works to eradicate these invasive plants, such as fountain grass.

The Fire Management program has a cooperative approach for the preparation, response, and recovery from wildfire incidents. It coordinates with groups such as Big Island Wildfire Coordinating Group, Maui Wildfire Coordinating Group, California/Nevada/Hawai'i Fire Council, West Hawaii Wildfire Management Organization, and Pacific Area Communications Center. They also provide incident support through Fire GIS, incident information, and finance and they are actively involved delivering fire prevention messages and share this at schools and fairs.

A. GENERAL, 1973-1996

Records are arranged in alphabetical order.

This subseries contains general eruption management records, such as correspondence, plans, policies, and proposals, and records that are not directly related to the other subseries, Fires Related to Volcanic Activity and Weather Data.

B. FIRES RELATED TO VOLCANIC ACTIVITY, 2002-2003

The series is arranged in the following order: Pānau Iki Fire and Mother Day Fire/Kupukupu Fire.

This subseries contains the fire management records of specific fire events. The records cover the Pānau Iki Fire and the Mother Day Fire/Kupukupu Fire. At this time the subseries has records of fires resulting from the 2002 Mother's Day Flow of Pu'u 'Ō'ō vent, Kīlauea Volcano. The Kupukupu Fire impacted 3,407 acres and the Pānau Iki Fire impacted 2,019 acres. This subseries consists log sheets, reports, forms, worksheets, digital images, maps and drawings.

1. PĀNAU IKI FIRE, 2002 December 30-2003 February 28

The sub-subseries is organized into nine file units created following the index arrangement provided by Protection. The final category of the index is divided into the following file units: Agency Administrative Records; Maps; Logistics Section Records; Planning Section Records; Training Records; Air Operations; Firefighter Protocols/Issues; Fire Updates/Press Releases; and Weather Observations.

The Pānau Iki Fire (HI-HVP-0301) escalated from a Type IV to a Type II incident on February 10, 2003, due to the continued advance of the flow and 50 mph winds. Superintendent Aleta Knight delegated the management of the fire to Incident Commander Linda Szczepanik and the Incident Management Team. The Incident Command Team concentrated operations on protecting high value native forest in the East Rift, including a special ecological area, as well as protecting recovering native plants and re-vegetation efforts in the previously burned Kupukupu area. Incident management of this fire was completed on February 23, 2003. The subseries consists of log sheets, reports, forms, worksheets, digital images, maps, and drawings.

2. MOTHER'S DAY LAVA FLOW/KUPUKUPU FIRE, 2002-2003

This sub-subseries is arranged in alphabetical order.

This subseries contains records from the Mother's Day Lava Flow/Kupukupu Fire. Resulting from the Mother's Day lava flow, the Kupukupu Fire began in May 2002 and ended that year in October 2002. The records from this lava flow include operation plans, incident action plans, media photographs, maps, notes, and memoranda. For more information regarding Mother's Day Lava Flow/Kupukupu Fire, see the subseries Eruption Incident Command System Unit Log.

C. WEATHER DATA, 1974-1997

This subseries is organized into five file units: Fire Danger Rating System/AFFIRMS (Automated Forest Fire Information Retrieval and Management System) Coding Sheets; Hygrothermograph Charts; Official Weather Observer's Field Booklets; Precipitation Records; and Records of Climatological Observations.[Arrangement]

Effective wildland fire management depends on accurate weather information, both for predicting high risk conditions as well as managing firefighting operations. The Wildland Fire Management Reference Manual 18 (January 1, 2008) provides guidelines for collecting weather station information and developing thresholds to be used for prevention, response, large fire actions, and prescribed fire activities. This subseries contains records documenting the collection of the weather data for fire management. Weather data collection locations include Kīlauea Visitor Center, Halema'uma'u Crater, Kīpuka Nēnē, 'Āinahou, Waha'ula Ranger Station, Pu'uloa, Uwēkahuna, Hawaiian Volcano Observatory, Mauna Loa (Keamoku Flow, Kīpuka Kulalio, Naulu), Lae 'Apuki, Hilina Pali, Pōhakuloa Training Area, Kalapana and Kealakomo. This subseries contains weather documentation including logs, coding sheets, charts, and field booklets.

VI. *PERMITS AND LOGS*

This series contains permits and logs of permits handled by the Protection Division. The series includes a log of hunters who received permits.

FILE UNIT DESCRIPTIONS

FIRE MANAGEMENT, 1974-1997

FIRES RELATED TO VOLCANIC ACTIVITY, 2002-2003

PĀNAU IKI FIRE, 2002 December 30-2003 February 28

0001. AGENCY ADMINISTRATIVE RECORDS, 2003 February 10-2003

February 23 2003 February 10-2003 February 23

This file unit includes a Delegation of Authority statement designating Linda Szczepanik as Incident Management Team leader for the Pānau Iki Fire and providing a brief summary of operations; hand-written briefing notes; a Fire Narrative by the Northern California Team #1; daily 30-Mile Hazard Abatement Checklists; and an Action Monitoring Plan.

0002. MAPS, 2003 February 13-2003 February 28

This file unit contains maps and diagrams that locate fire-related points such as primary lines, containment lines, helispots, fuel types, lava flows, roads, and trails as well as successive changes in the mapping of these points. Also included is one CD-R containing 17 images of the fire, a photo log, and one image of the Kupukupu burn.

0003. LOGIST INCIDENT COMMAND SYSTEM RECORDS, 2002 December 30-2003 February 23

This file unit includes resource orders for manpower, personal protective gear, equipment, vehicles, hardware, supplies, housing, and food. Also included are two pages of hand-written radio logs.

0004. PLANNING SECTION RECORDS, 2003 February 12-2003 February 23

This file unit includes original and correction copies of daily incident action plans, which detail personnel assignments, air operations, weather, radio communication, and maps. Also included is a contingency plan with a CD-R of 17 images of the fire, a photo log and one image of the Kupukupu burn; status check-in logs (Incident Command System-211); situation status reports (Incident Command System-209), operations planning worksheets (Incident Command System-215) and unit logs (Incident Command System-214).

0005. TRAINING RECORDS, 2003

Training records include training officer forms; trainee lists; helicopter boss and helicopter manager training.

0006. AIR OPERATIONS, 2003 February 11-2003 February 23

Air operations records detail air operations planning, resource use, and schedules.

0007. FIREFIGHTER PROTOCOLS/ISSUES, 2003 February 14-2003**February 22**

This file unit includes a manual for incoming mainland firefighters, a declaration of occupational risks, and information requested for the firefighters.

0008. FIRE UPDATES/PRESS RELEASES, 2003 January-2003 February 20**0009. WEATHER OBSERVATIONS, 2003 February 12-2003 February 22**

WEATHER DATA, 1974-1997

0001. FIRE DANGER RATING SYSTEM/AFFIRMS (AUTOMATED FOREST FIRE INFORMATION RETRIEVAL AND MANAGEMENT SYSTEM) CODING SHEETS, 1976-1997

This file unit contains two folders of monthly data sheets for the Hawaii Fire Danger Rating System and ten folders of Automated Forest Fire Information Retrieval and Management System (AFFIRMS) Coding Sheets. There are two sheets per month from 1976 to October 1984 and one sheet per month thereafter completed with as many as eighteen weather related data points. This data was entered into an automated program that calculates fire danger level rating. Sites included in the weather data points are Hilina Pali (91290), Mauna Loa Strip Road (91291), Mauna Loa (496005), Naulu (496006), Hilina Pali (496007), Hilina Pali (496009), Pōhakuloa Training Area (496010), Kalapana/Lae 'Apuki (496014), Kealakomo (496016). Folders are arranged numerically by site and then by year chronologically. Monthly sheets are arranged in reverse chronology.

0002. HYGROTHERMOGRAPH CHARTS, 1979-1997

This file unit contains records of the hygrothermograph, an apparatus that continuously records temperature and relative humidity data on calibrated chart paper wrapped around a revolving drum. Personnel replace the charts once a week. The folders in this file unit are arranged numerically by site number, then chronologically by year.

0003. OFFICIAL WEATHER OBSERVER'S RECORD FIELD BOOKLET, 1974 January-1986 August

This file unit contains field booklets each containing a month of daily observations that include maximum and minimum temperature; temperature at time of observation; precipitation; wind direction and speed; and a short weather description. The booklets contain data taken at Headquarters. Records span from January 1974 to August 1986, with a gap in records for December 1982.

0004. PRECIPITATION RECORDS, 1974 January-1996 February

This file unit contains precipitation readings from the following sites: Headquarters Kīlauea Visitor Center (KVC), Halema'uma'u Crater, Kipuka Nene, Ainahou, Kalapana #1 (Waha'ula Ranger Station), Kalapana #2 (Puuloa), Uwekahuna (Hawaiian Volcano Observatory), Mauna Loa 5500-5700 ft (Keamoku Flow),

Mauna Loa 6700 ft (Kipuka Kulalio), Naulu (Mauna Loa). The folder "Rainfall Records, Naulu" contains precipitation gauge charts for Naulu.

0005. RECORDS OF CLIMATOLOGICAL OBSERVATIONS, 1974-1994

This file unit contains monthly record sheets, which contain daily observations of climate, including: maximum and minimum temperature; temperature at time of observation; precipitation; wind direction; and a short weather description. Not all data is present on all sheets. The sites included are Headquarters, Halema'uma'u, Kalapana #1 (Waha'ula), Lae 'Apuki.

CONTAINER LIST

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